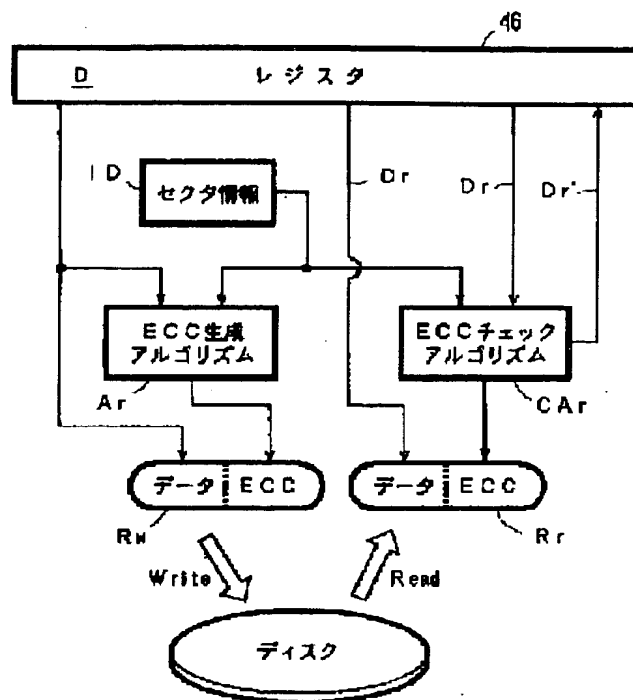|	
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APPLICANT : INTERNATL BUSINESS MACH CORP <IBM>;

INVENTOR : JOHN HASWELL;

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TITLE : DATA PROCESSING METHOD AND DATA STORAGE DEVICE

ABSTRACT : PROBLEM TO BE SOLVED: To improve the reliability by discriminating an error in correspondence between data held on a disk and addresses, and then store more information on the disk.

SOLUTION: User data D when written is held in a register 46, and an error correction code ECC is generated by ECC generation algorithm Ar from both the user data D and its sector information (ID). The record consisting of the user data D and generated ECC is written on the disk; when the record is read out, the user data Dr of the read record Rr is. held temporarily in the register 46, the ECC is separated from the read record Rr, and an error check on the combined data of the user data D and sector information used as the address is made by ECC check algorithm. Only when it is judged by this error check that the sector information contains no error, the user data held in the register 46 is corrected and outputted to a host.

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